

JOHN P. LOCKRIDGE OPERATOR, INC.

July 29, 1985

Bureau of Land Management
170 South 500 East
Vernal, Utah 84078

RECEIVED

AUG 02 1985

Re: Application for Permit to Drill
John P. Lockridge Operator, Inc.
#44-30 Horseshoe Bend Federal
SE SE Section 30-T6S-R22E
Uintah County, Utah

DIVISION OF OIL
GAS & MINING

Gentlemen:

We herewith submit in triplicate an Application for Permit to Drill the #44-30 Horseshoe Bend Federal in the SE SE Section 30-T6S-R22E, Uintah County, Utah. The proposed drill-site is on USA Oil and Gas Lease U-31260. A Designation of Operator naming John P. Lockridge Operator, Inc. will be submitted to your office in the very near future.

A Cultural Resource Survey has been conducted for the access road and location and will be submitted to you under separate cover.

We will be utilizing an existing road in Section 29-T6S-R22E for access to the #44-30. Please advise us as to your requirement for obtaining right-of-way during either the drilling or production operations.

Our engineering supervisor, Curley Grimlie, will be available to participate in the on-site inspection at your earliest convenience.

Your consideration of the enclosed APD will be appreciated.

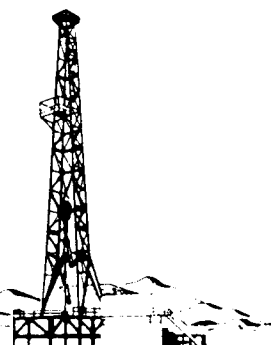
Yours truly,



John P. Lockridge

cc: Utah Natural Resources, Division of Oil, Gas and Mining

Note: Application has been made with the State engineer for use of water from the Green River. No activity will be conducted prior to our advising your office of the number of the permit under which water will be obtained.



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

OTHER

SINGLE ZONE ☒

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

John P. Lockridge Operator, Inc.

3. ADDRESS OF OPERATOR

1444 Wazee, Suite 218, Denver, CO 80202

303

RECEIVED

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

SE SE (877' FEL & 745' FSL) Sec. 30-T6S-R22E, SLM

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

16 miles SE of Vernal, Utah

DIVISION OF OIL
GAS & MINING

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any)

745'

16. NO. OF ACRES IN LEASE

237.2 more or less

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

No other wells
on lease

19. PROPOSED DEPTH

3795

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4963 Gr: 4975' KB

22. APPROX. DATE WORK WILL START*

8/15/85

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24.0#	200'	110 sacks
7 7/8"	4 1/2"	9.5#	TD	260 sacks

Proposal: To drill a test well through the Uinta formation

Other Items:

- 1) Survey plat attached
- 2) Ten Point drilling program attached
- 3) Thirteen Point surface use and operation plan attached
- 4) Cultural resource survey report to be submitted under separate cover
- 5) Anticipated BHP is 1400 psi.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 8/6/85

BY: John P. Lockridge

WELL SPACING: 145-5 6/20/85

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

John P. Lockridge

TITLE

President

DATE 7/29/85

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

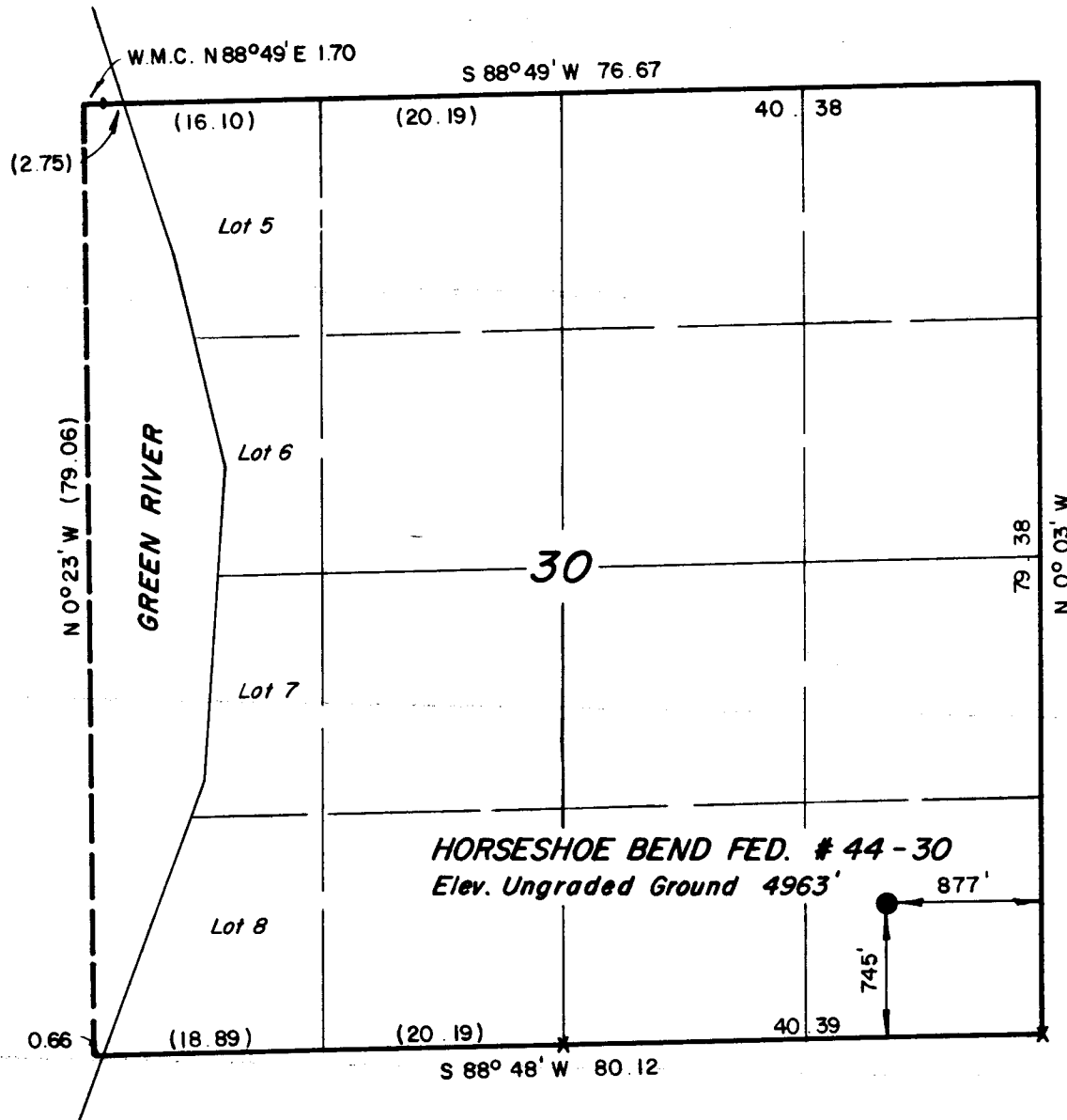
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

T 6 S, R 22 E, S.L.B. & M.

PROJECT

JOHN P. LOCKRIDGE OPERATOR, INC.

Well location, **HORSESHOE BEND**
FED. # 44 - 30, located as shown in the
 SE 1/4 SE 1/4 Section 30, T6S, R 22 E,
 S.L.B. & M. Uintah County, Utah.



X = Section Corners Located

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
 FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
 SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
 BEST OF MY KNOWLEDGE AND BELIEF.

Robert J. Lockridge
 REGISTERED LAND SURVEYOR
 REGISTRATION NO 2454
 STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
 P.O. BOX Q - 85 SOUTH - 200 EAST
 VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 7 / 25 / 85
PARTY B.W. H.M.	REFERENCES GLO Plat
WEATHER Cool, Cloudy, Rain	FILE LOCKRIDGE

THIRTEEN POINT SURFACE USE PLAN

1) EXISTING ROADS

See attached topographic maps A & B. Directions: take Highway 40 south from Vernal, approximately one mile to point where Highway 40 veers east. Take "New Bonanza" highway south approximately 15 miles to access road on right, or west side of highway. The location is approximately 1.3 miles west of the highway and an existing road will be upgraded as the access road to the location.

2) PLANNED ACCESS ROAD

See attached topographic map A. It will be necessary to construct approximately fifty feet of new road to connect the existing road with the proposed location. Construction of the new road will meet the following standards.

Maximum grade should not exceed 7% (7' per 100). The trail will be a maximum of an 18" crown road (9' on either side of the centerline) with drain ditches along either side of the proposed road where it is determined necessary in order to handle any run off from any normal meteorological conditions that are prevalent to this area.

Back slopes along the cut areas of the road will be 1 1/2 to 1 slopes and terraced.

The road will be centerline flagged prior to the commencement of construction.

No major cuts or fills appear necessary. No culverts will be needed. See Topo Map B.

The grade of this road will be constructed from native borrow accumulated during construction.

Any fences that are encountered along this access road will be cut and replaced with a cattleguard with a minimum width of 18' and a loading factor large enough to facilitate the heavy trucks required in the drilling production of this well.

If cattleguards are to be located at existing gates, they will be installed with the above requirements with a new gate installed at one end of the cattleguard.

Onsite inspection field comments:

3) LOCATION OF EXISTING WELLS

Within a one mile radius the following wells are identified by category and listed below.

1. Water wells - none

2. Abandoned wells - producing - none

Dry holes - Kimbark SW SE 29-T6S-R22E
Pan Am SW SW 29-T6S-R22E
Lockridge NW SE 31-T6S-R22E

3. Temporarily abandoned wells - none

4. Disposal wells - none

5. Drilling wells - none
Locations:

6. Producing wells - Snyder NE 32-T6S-R22E Snyder SW 31-T6S-R22E
Snyder SW 32-T6S-R22E
Snyder NE 31-T6S-R22E

7. Shut-in wells - none

8. Injection wells - none

9. Monitoring or observation wells - none

4) LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES AND PRODUCTION GATHERING AND SERVICE LINES

At the present time there are no John P. Lockridge Operator, Inc. batteries, production facilities, oil gathering lines, gas gathering lines, injection or disposal lines within a two mile radius.

In the event that production of this well is established, then the existing area of the location will be utilized for the establishment of the necessary production facilities.

This area will be built, if possible, with the native materials and if these materials are not available, then the necessary arrangements will be made to get them from private sources.

The total area that is needed for the production of this well will be fenced and cattleguards will be utilized for access to these facilities.

The rehabilitation of the disturbed area that is not required for the production of this well will meet the requirements of Items #7 and #10 and these requirements and standards will be adhered to.

If production facilities are necessary, these facilities will be constructed as shown in Figure 1.

4) Onsite inspection field comments:

5) LOCATION AND TYPE OF WATER SUPPLY

Water will be hauled from the Green River by truck. Application has been made for a state water permit.

The existing roads and proposed roads previously noted will be all that are needed. No water well will be drilled for this operation.

Onsite inspection field comments:

6) SOURCE OF CONSTRUCTION MATERIALS

All construction materials for this location site and access road shall be borrow materials accumulated during construction of the location site and access road. No additional road gravels or pit lining material from other sources are anticipated at this time, but if they are required the appropriate actions will be taken to acquire them from private sources.

7) METHODS FOR HANDLING WASTE DISPOSAL

See Location Layout Sheet.

The mud pit will be approximately 6' deep and at least one half of this depth shall be below the surface of the existing ground.

A test tank will be used to contain produced fluids.

If deemed necessary by the agencies concerned, to prevent contamination to surrounding areas, the mud pits will be lined with a gel.

The pits will have wire and overhead flagging installed at such time as deemed necessary to protect the water fowl, wildlife, domestic animals.

On the onset of drilling, the mud pit will be fenced on three sides and at the time the drilling activities are completed, it will be fenced on the fourth side and allowed to dry completely prior to the time that backfilling and reclamation activities are attempted.

When the mud pit dries and the reclamation activities commence, the pit will be covered with a minimum of four feet of soil and all requirements in Item #10 will be followed.

Trash will be placed in a completely enclosed container and hauled off the location.

All flammable materials will be burned and then buried upon completion of this well.

A portable chemical toilet will be supplied for human waste.

8) ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9) WELL SITE LAYOUT

See attached Location Layout Sheet. The B.L.M. District Manager shall be notified before any construction begins on the proposed location site.

As mentioned in Item #7, the pits will be unlined unless it is determined by the representatives of the agencies involved that the materials are too porous and would cause contamination to the surrounding area. Then the pits will be lined with a gel and any other type material necessary to make it safe and tight.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10) PLANS FOR RESTORATION OF SURFACE

As there is some topsoil on the location site, all topsoil shall be stripped and stockpiled. (See location layout sheet and Item #9.) When all drilling and production activities have been completed, the location site and access road will be reshaped to the original contour and stockpiled topsoil spread over the disturbed area.

As mentioned in Item #7, the mud pit will be completely fenced and wired and overhead wire and flagging installed, if there is oil in the pits, and then allowed to completely dry before covering.

Restoration activities shall begin as soon as possible after the mud pit has dried up, and will be completed without undue delay.

When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the B.L.M. District Manager when the moisture content of the soil is adequate for germination. The Lessee further covenants and agrees that all of said cleanup and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned Items #7 and #10.

11) OTHER INFORMATION

The drillsite is located in an area of moderate slope (see cross section). The Surface is the Uinta formation, light brown sandy clay with sparse sagebrush cover. There are no trees on the proposed location.

General use of the surface is grazing. The new road and location are federally owned.

An archeological report will be filed on this prospect under separate cover.

The closest water is located in the Green River.

John P. Lockridge Operator, Inc.
#44-30 Horseshoe Bend Federal
SE SE Section 30-T6S-R22E
Uintah Co., Utah

11) Onsite inspection field comments:

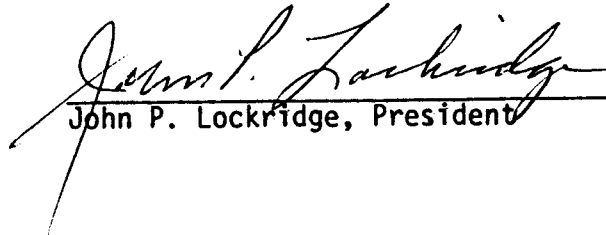
12) LESSEE'S OR OPERATOR'S REPRESENTATIVE

John P. Lockridge
1444 Wazee, Suite 218
Denver, Co 80204

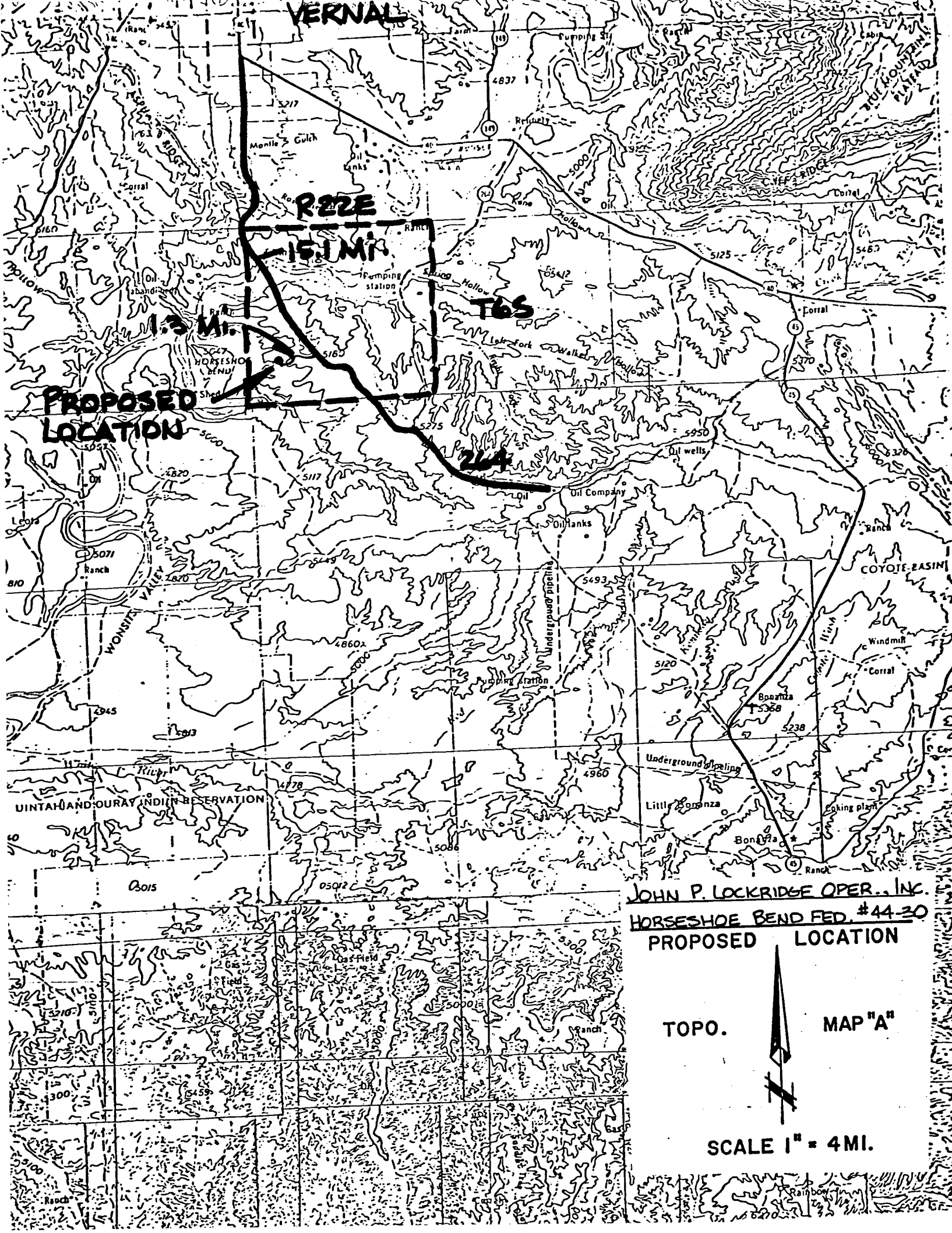
Telephone - 303-628-9371

13) CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route. That I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by John P. Lockridge Operator, Inc., and its contractors and subcontractors in conformity with this plan and terms and conditions with this plan and the terms and conditions under which it is approved.



John P. Lockridge, President



VERNAL

R22E

1.3 Mi.

T6S

Proposed Location

UINTAH AND OURAY INDIAN RESERVATION

JOHN P. LOCKRIDGE OPER., INC.

HORSESHOE BEND FED. #44-30

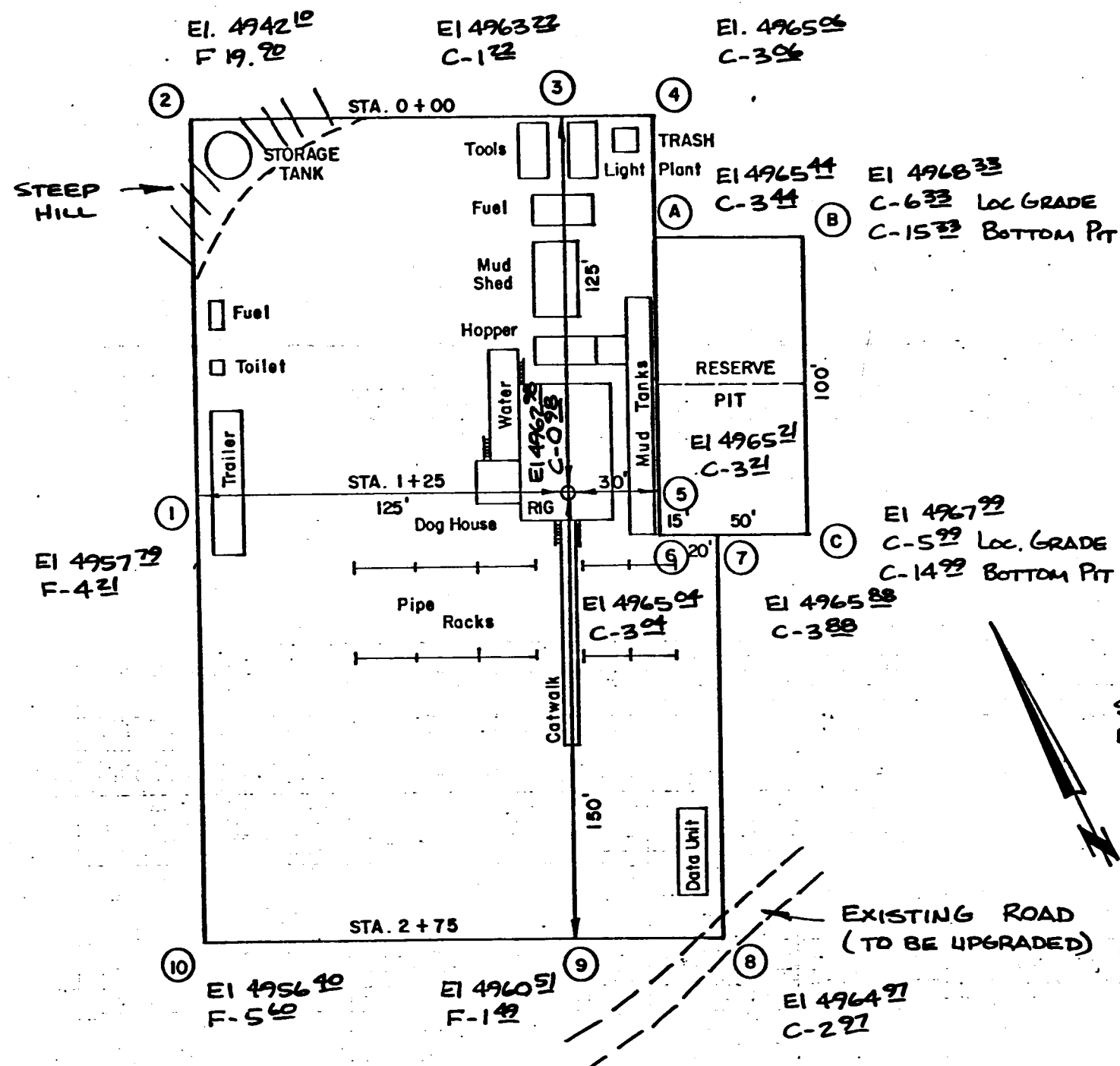
PROPOSED LOCATION

TOPO.

MAP "A"

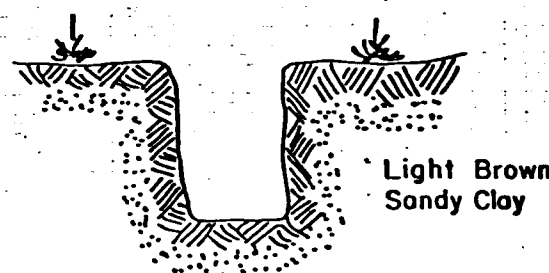
SCALE 1" = 4 MI.

NOTE: CORNER #2 MAY NEED
TO BE ROUNDED SHORT
OF ACTUAL POINT.

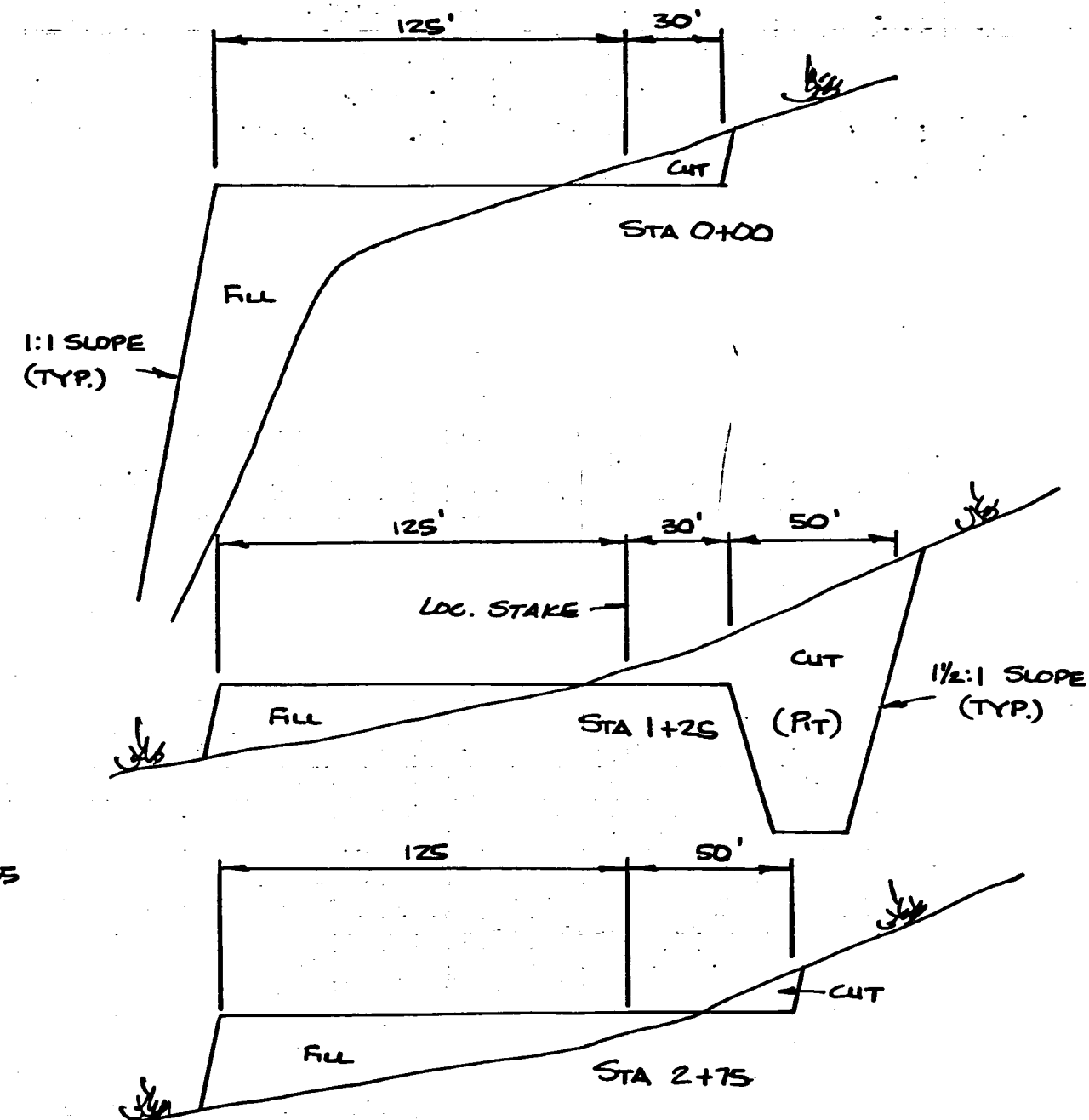


SOILS LITHOLOGY

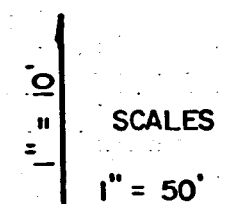
- no scale -



JOHN P. LOCKRIDGE OPERATOR, INC.
HORSESHOE BEND FED. # 44-30



SCALE 1" = 50'
DATE 7-25-85



APPROXIMATE YARDAGES

Cu. Yds. Cut 4,034
Cu. Yds. Fill 3,782

JOHN P. LOCKRIDGE
HORSESHOE BEND
PROPOSED

TOPO.

SCALE 1" = 1 MILE
ROAD CLASS
Light duty road, all weather,
improved surface

UTAH

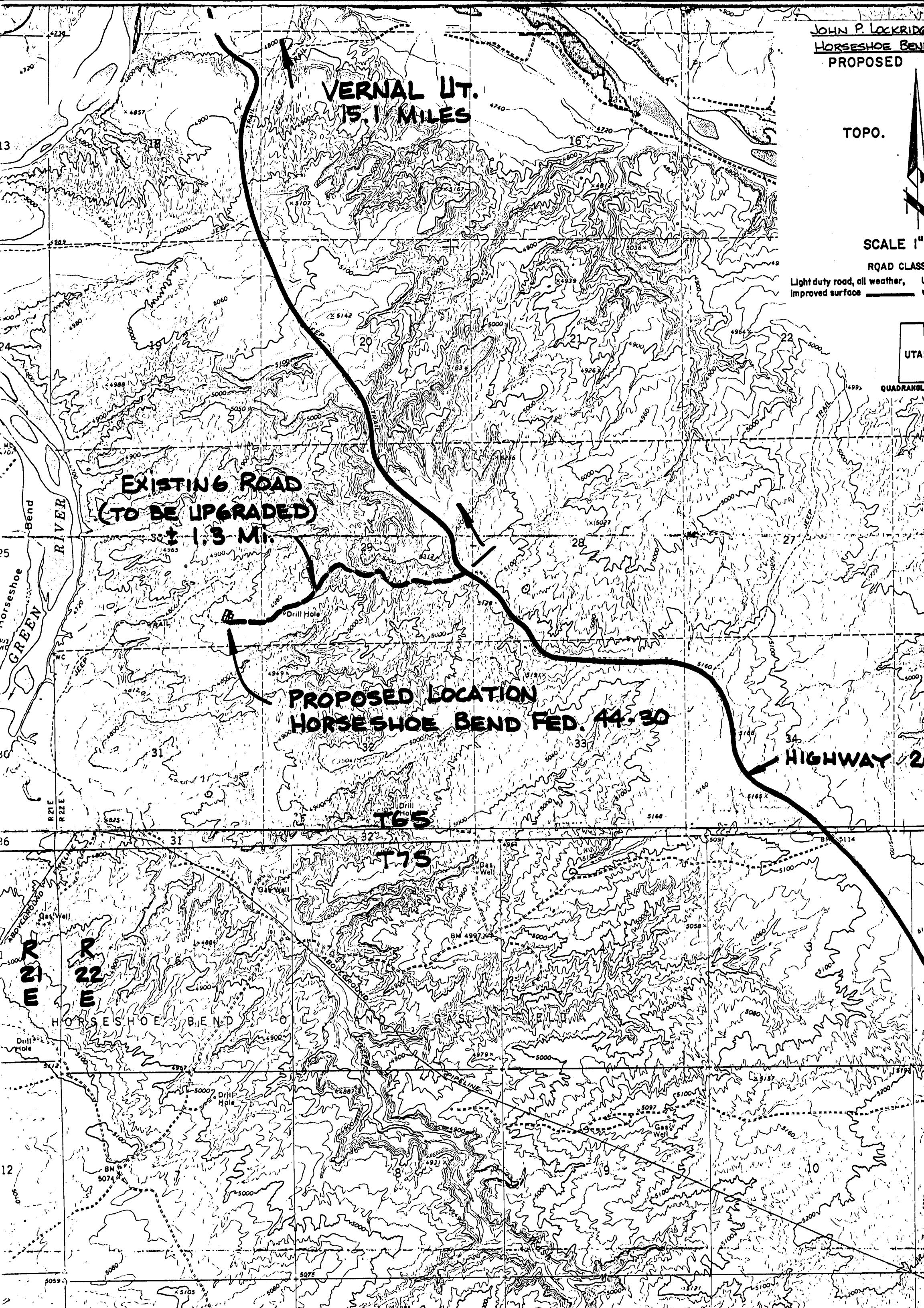
QUADRANGLE

VERNAL UT.
15.1 MILES

EXISTING ROAD
(TO BE UPGRADED)
1.3 MI.

PROPOSED LOCATION
HORSESHOE BEND FED. 44-30

HIGHWAY 2



VERNAL UT.
15.1 MILES

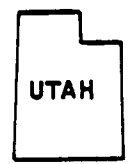
TOPO.

MAP "B"

SCALE 1" = 2000'

ROAD CLASSIFICATION

Light duty road, all weather, improved surface Unimproved road fair or dry weather



UTAH
QUADRANGLE LOCATION

EXISTING ROAD
TO BE UPGRADED)
1.3 Mi.

PROPOSED LOCATION
HORSE SHOE BEND FED. 44.30

HIGHWAY 264

T6S

T7S

E. BEND

GAS

WELL

PIPELINE

GAS

WELL

Oil
Symp

TOPO.

SCALE 1" =

ROAD CLASSIF

Light duty road, all weather, Improved surface _____ Un- we

UTAH

QUADRANGLE

EXISTING ROAD
(TO BE UPGRADED)
3.13 Mi.

PROPOSED LOCATION
HORSESHOE BEND FED. 44.30

HIGHWAY 24

T65

T75

R Z E

R
23
E

HORSESHOE BEND

GAS

~~PIPELINE~~

Gas

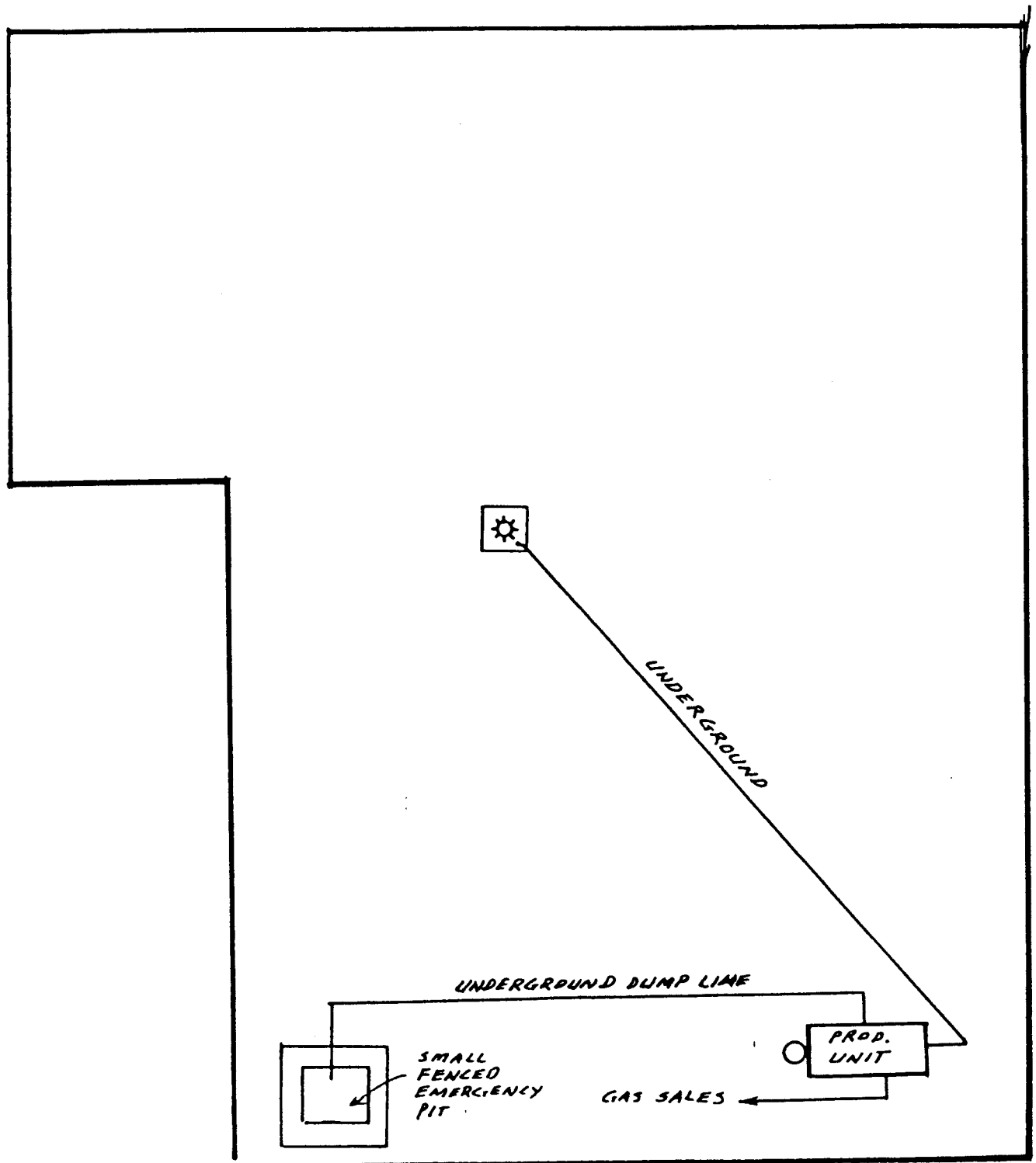
10

Drill

OK
Sumo

John P. Lockridge Operator, Inc.
#44-30 Horseshoe Bend Federal
SE SE Section 30-T6S-R22E
Uintah Co., Utah

Figure 1.
Production Facilities



TEN POINT PROGRAM

1) GEOLOGIC SURFACE FORMATION

The surface formation is Uinta.

2 & 3) GEOLOGIC MARKERS AND PRODUCTIVE INTERVALS

<u>Formation</u>	<u>Estimated Top</u>	<u>Possible Production</u>
Uinta "B" Marker	3265'	H
Uinta Green River Transition	3645'	H
Green River	3795'	H
T. D.	3795'	

W = Water H = Hydrocarbon (oil or gas) C = Coal S = Steam

4) CASING PROGRAM

<u>Hole Size</u>	<u>Casing Size</u>	<u>Grade</u>	<u>Weight</u>	<u>Thrd & Cond</u>	<u>Depth</u>
12 1/4	8 5/8"	H-40	24.0	STC	200'
6 3/4	4 1/2"	J-55	9.5	STC	TD

5) CONTROL EQUIPMENT SPECIFICATIONS

The following equipment will be utilized for detection and control during the drilling operation.

BLOW OUT PREVENTORS

Size 7 1/16" Pressure Rating 3000 psi

Pipe Rams yes Blind Rams yes

Annular Preventor yes

Kill Line Size 2" x 3000 psi Valves 2" x 3000 psi

Check Valve 2" x 3000 psi

Manifold

Size 3" Valves 3" x 3000 Pressure 3000 psi

Positive choke yes Adjustable Choke yes

See Exhibit I attached for additional detail. BOP Equipment will be installed prior to drilling below 8 5/8" casing and BOP will be tested to 1500 psi using rig pump. Surface casing will be tested to 70% of internal yield.

6) DRILLING FLUIDS

<u>Interval</u>	<u>Type Fluid</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>	<u>Remarks</u>
0-200'	Air				
200-2200'	KCL Water	8.4 - 8.6	No Control	No Control	
2200'-TD	KCL Gel Mud	8.6 - 9.0	45 - 55	10 cc	

Possible Sub Normal Pressured Zones Green River

Possible Abnormal Pressured Zones None

7) AUXILIARY EQUIPMENT

Upper Kelly Cock no

Lower Kelly Cock no

Floor Valve DP yes

Floor Valve DC yes

Float in DC yes

Inside BOP (Dart Valve) no

ADDITIONAL DETECTION EQUIPMENT & SERVICE

Mud Logging Unit yes

Pit Volume Totalizer no

Flow Line Sensor no

Flow Line Temperature no

Sour Gas Detector no

Pump Stroke Counter no

John P. Lockridge Operator, Inc.

#44-30 Horseshoe Bend Federal

SE SE Section 30-T6S-R22E

Uintah Co., Utah

Degasser _____ no _____

Mud Gas Separator _____ no _____

Drilling Data Unit _____ no _____

Other The mud system will be visually monitored

8) EVALUATION

A) Testing

All significant hydrocarbon shows will be drill stem tested. There will probably be 2 to 4 DST's.

B) Logging

<u>Depth</u>	<u>Electric Wireline Logs</u>	<u>Interval</u>
Total Depth	DIL/GR, FDC/CNL	200'-TD

C) Coring

<u>Formation</u>	<u>Type Core</u>	<u>Analysis</u>
none		

9) DRILLING HAZARDS

No extraordinary hazards are anticipated.

10) STARTING DATE 8-15-85 DURATION 8 DAYS.

DRILLING PROGRAM PREPARED BY: JOHN P. LOCKRIDGE


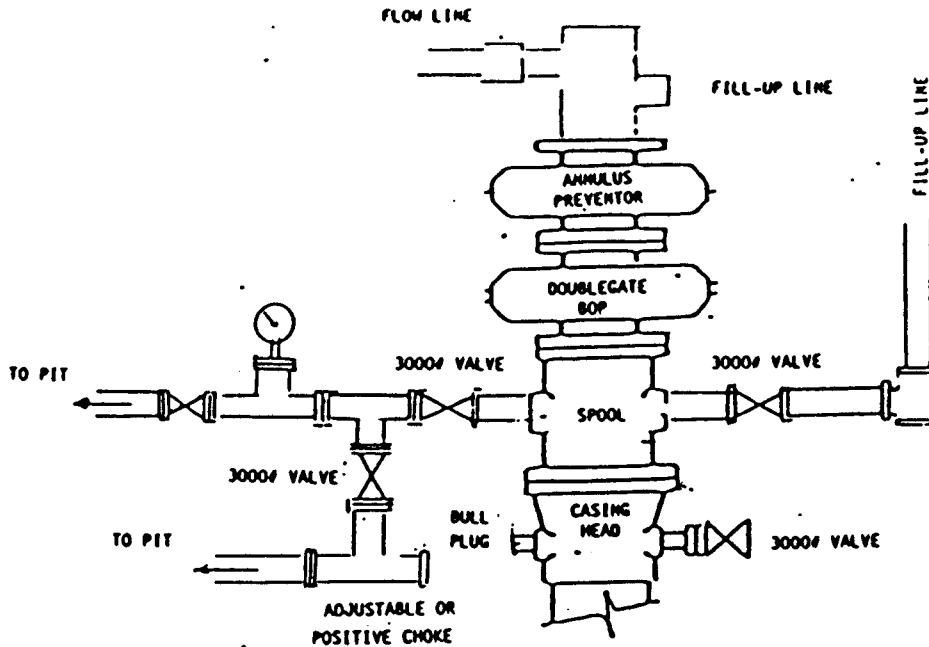

John P. Lockridge

EXHIBIT 1

Sketch of Blowout Preventor
3000 psi System



Notes: Pipe rams to be operated daily. Blind rams to be operated each trip.

Test Procedure

- 1) Flush BOP's and all lines to be tested with water.
- 2) Run test plug on test joint and seat in casing head (leave valve below test plug open to check for leak).
- 3) Test the following to rated pressure:
 - a) inside blowout preventer
 - b) annulus preventer
 - c) lines to mud pump
 - d) stand pipe valve
 - e) lines to mud pump
 - f) kill line to BOP's
- 4) Close and test pipe rams to rated pressure.
- 5) Close and test Hydril to rated pressure.
- 6) Back off and leave test plug in place. Close and test blind rams to rated pressure.
- 7) Test all choke manifold valves to rated pressure.
- 8) Test kill line valves to rated pressure.

OPERATOR John P. Lockridge DATE 8-5-85
WELL NAME Horseshoe Bend Fed 44-30
SEC SE SE 30 T 6S R 22E COUNTY Utah

43-047-31664
API NUMBER

Fed
TYPE OF LEASE

CHECK OFF:



PLAT



BOND



NEAREST WELL



LEASE



FIELD



POTASH OR
OIL SHALE

PROCESSING COMMENTS:

2 1/2 acre
Needs water permit

APPROVAL LETTER:

SPACING:



A-3

UNIT



C-3-a

Case No. 145-5
CAUSE NO. & DATE
6/24/85



C-3-b



C-3-c

STIPULATIONS:

1- water



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

August 6, 1985

John P. Lockridge Operator, Inc.
1444 Wazee, Suite 218
Denver, Colorado 80202

Gentlemen:

Re: Well No. Horseshoe Bend Federal 44-30 - SE SE Sec. 30, T. 6S, R. 22E
745' FSL, 877' FEL - Uintah County, Utah

Approval to drill the above-referenced gas well is hereby granted in accordance with the Order of Cause No. 145-5 dated June 20, 1985 subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.

Page 2
John P. Lockridge Operator, Inc.
Well No. Horseshoe Bend Federal 44-30
August 6, 1985

4. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-047-31664.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

as
Enclosures
cc: Branch of Fluid Minerals

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1A. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

B. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

OTHER

SINGLE ZONE ☒

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

John P. Lockridge Operator, Inc.

3. ADDRESS OF OPERATOR

1444 Wazee, Suite 218, Denver, CO 80202 303+628-9371

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At surface

SE SE (877' FEL & 745' FSL) Sec. 30-T6S-R22E, SLM

At proposed prod. zone

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16 miles SE of Vernal, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(Also to nearest drilg. unit line, if any)

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TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

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8/15/85

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SIGNED

John P. Lockridge

TITLE

President

DATE 7/29/85

(This space for Federal or State office use)

PERMIT NO.

Don Alvord

APPROVAL DATE

ASSOCIATE

DISTRICT MANAGER

DATE

09-19-85

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

*See Instructions On Reverse Side

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company John P. Lockridge Operator, Inc. Well No. 44-30
Location Sec. 30 T6S R22E Lease No. U-31260
Onsite Inspection Date 08-09-85

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

A. DRILLING PROGRAM

1. All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

BOP and choke manifold systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location during pressure testing.

3. Casing Program and Auxiliary Equipment

The cementing program for the surface casing shall provide sufficient quantity to bring cement to surface. The cementing program for the production string shall provide coverage of any hydrocarbon or fresh water zone encountered while drilling.

The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

4. Mud Program and Circulating Medium

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion reports shall be submitted to this office on a weekly basis.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the authorized officer (AO).

6. Other Conditions for Drilling Program

Ram-type preventers shall be tested to 2,000 psi.

Either an upper or lower kelly cock will be employed.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the AO within 48 hours after spudding. If the spudding occurs on a weekend or holiday, the report will be submitted on the following regular work day. The oral report will be followed up with a Sundry Notice.

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed, in duplicate, to the Vernal BLM District Office, 170 South 500 East, Vernal, Utah 84078.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than 5 days following the date on which the well is placed on production.

Pursuant to NTL-2B, with the approval of a District Engineer, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.

Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during initial well evaluation tests, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day or authorized test period.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

A first production conference will be scheduled within 15 days after receipt of the first production notice.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

Pursuant to Onshore Oil and Gas Order No. 1, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such State and local laws are applicable to operations on Federal or Indian lands.

B. THIRTEEN POINT SURFACE USE PLAN

7. Location of Tank Batteries and Production Facilities

All permanent (on site for six months or longer) structures constructed or installed (including oil well pumpjacks) will be painted a flat, non-reflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain 5 State Interagency Committee. All facilities will be painted within 6 months of installation. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded.

If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain $1\frac{1}{2}$ times the storage capacity of the battery.

No tank battery is anticipated for this well.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and anchored securely downstream of the meter. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

8. Source of Construction Material

The use materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

9. Methods of Handling Waste Disposal

The reserve pit will not be lined.

Burning will not be allowed.

Produced waste water will be confined to an unlined pit for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, along with required water analysis, will be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order.

10. Well Site Layout

The reserve pit will be located as indicated.

The stockpiled topsoil will be stored between stakes No. 1 and 10 on the west side of the pad.

Access to the well pad will be as described in the APD.

Reserve pits will be fenced with a wire mesh fence and topped with at least one strand of barbed wire.

11. Plans for Restoration of Surface

Immediately upon completion of drilling, the location and surrounding area will be cleared of all debris, materials, trash and junk not required for production. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc. will be removed.

The BLM will be consulted for a suitable seed mixture for the reseeding of the location.

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

Seed will be broadcast or drilled at a time specified by the BLM. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage.

12. Other Information

There will be no deviation from the proposed drilling and/or work-over program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.2.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.

The dirt contractor will be provided with an approved copy of the surface use plan.

A suitable cultural resource clearance has been received for the project. If any cultural resources are found during construction, all work will stop and the AO will be notified.

This permit will be valid for a period of one year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

In the event after-hour approvals are necessary, please contact one of the following individuals:

Craig M. Hansen	(801) 247-2318
Assistant District Manager for Minerals	

Gerald E. Kenczka	(801) 781-1190
Petroleum Engineer	

R. Allen McKee	(801) 781-1368
Petroleum Engineer	

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

API #43-047-31664

NAME OF COMPANY: JOHN LOCKRIDGE

WELL NAME: HORSESHOE BEND FEDERAL 44-30

SECTION SE SE 30 TOWNSHIP 6S RANGE 22E COUNTY Uintah

DRILLING CONTRACTOR

RIG #

SPUDDED: DATE 10-1-85

TIME 8:45 AM

HOW Dry Hole Digger

DRILLING WILL COMMENCE 10-3-85 - Olsen Drilling - Rig #5

REPORTED BY Curlee Grimley

TELEPHONE # 789-4200 (Unit 85-33)

DATE 10-1-85 SIGNED JRB

JOHN P. LOCKRIDGE OPERATOR, INC.

RECEIVED

OCT 07 1985

October 3, 1985

Bureau of Land Management
170 South 500 East
Vernal, Utah 84078

DIVISION OF OIL
GAS & MINING

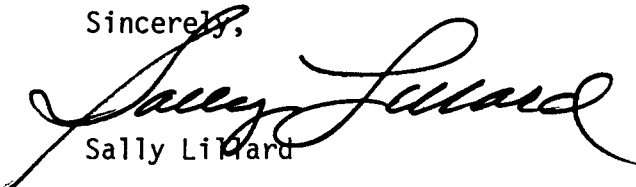
Re: Sundry Notice
Report of Spud Date
#44-30 Horseshoe Bend Federal
Uintah County, Utah

Gentlemen:

Enclosed please find, in triplicate, a Sundry Notice reporting the spudding of the #44-30 Horseshoe Bend Federal well in the SE SE Section 30-T6S-R22E, Uintah County, Utah.

Your prompt consideration and approval of this Sundry Notice will be appreciated.

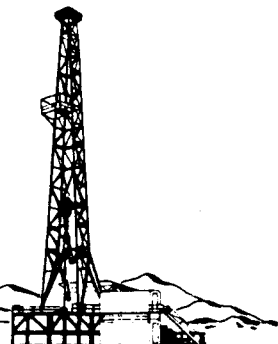
Sincerely,



Sally Lillard

/sl

cc: State of Utah
Division of Oil Gas and Mining
Curley Grimlie



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL
(Other instructions
verse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

2

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-31260	
2. NAME OF OPERATOR John P. Lockridge Operator, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -----	
3. ADDRESS OF OPERATOR 1444 Wazee Street, Suite 218, Denver, Colorado 80202		7. UNIT AGREEMENT NAME -----	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface SE SE (877' FEL & 745' FSL) Section 30-T6S-R22E		8. FARM OR LEASE NAME 'Horseshoe Bend Federal	
14. PERMIT NO. 43-047-31664		9. WELL NO. #44-30	
15. ELEVATIONS (Show whether DF, NT, GR, etc.) 4963' Gr., 4975' KB		10. FIELD AND POOL, OR WILDCAT -----	
		11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA 30-T6S-R22E, SLM	
		12. COUNTY OR PARISH Uintah	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

FULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Spud

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilling of the subject well was commenced at 8:30 am, 10/1/85. Drilled 12½" holes to 237' KB. Ran 5 joints, 8 5/8", 24#, 8rd, ST&C, J% casing. (211.46') Set at 227' KB. Cemented with 120 sacks, Type A, 3% CaCl. Good circulation. Plug down at 2:45 pm. Cemented by Halliburton.

18. I hereby certify that the foregoing is true and correct

SIGNED

John P. Lockridge

TITLE

President

DATE

10/2/85

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

(November 1983)
(Form 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT AN AND
(Other instruct/verse side)

1/2 re

Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-31260

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Horseshoe Bend Federal

9. WELL NO.

#44-30

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Section 30-T6S-R22E, SLM

14. PERMIT NO.

43-047-31664

15. ELEVATIONS (Show whether DF, RT, OR, etc.)

4963' Gr., 4975' KB

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐

PULL OR ALTER CASING

☐

FRACTURE TREAT

☐

MULTIPLE COMPLETE

☐

SHOOT OR ACIDIZE

☐

ABANDON*

☐

REPAIR WELL

☐

CHANGE PLANS

☐

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐

REPAIRING WELL

☐

FRACTURE TREATMENT

☐

ALTERING CASING

☐

SHOOTING OR ACIDIZING

☐

ABANDONMENT*

☒

(Other)

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Well plugged and abandoned on October 10, 1985 as follows:

Set 60 sack plug from 3300-3100'.

Set 60 sack plug from 325-125'.

Set 25 sack plug from 80' - surface.

Cemented by Halliburton. Nipple down BOP. Clean mud pit. Rig released at 1500 hours 10/10/85.

Plugging orders received from Gerald Kenczka, BLM, at 5:00 am, 10/10/85.

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 10/18/85

BY: John R. Bays

18. I hereby certify that the foregoing is true and correct

SIGNED

John P. Lockridge

TITLE

President

DATE

10/14/85

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other In-
structions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

16

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input type="checkbox"/>	Other <input checked="" type="checkbox"/> Dry Hole		
b. TYPE OF COMPLETION:		NEW WELL <input type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	Other <input type="checkbox"/>
2. NAME OF OPERATOR John P. Lockridge Operator, Inc.						3. ADDRESS OF OPERATOR 1444 Wazee Street, Suite 218, Denver, Colorado 80202	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface SE SE (877' FEL & 745' FSL) Section 30-T6S-R22E At top prod. interval reported below At total depth						5. LEASE DESIGNATION AND SERIAL NO. U-31260	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME UNIT AGREEMENT NAME						7. FARM OR LEASE NAME Horseshoe Bend Federal	
8. WELL NO. #44-30						9. FIELD AND POOL, OR WILDCAT Undesignated	
10. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Section 30-T6S-R22E, SLM						11. COUNTY OR PARISH Utah	
12. PERMIT NO. 43-047-31664						13. DATE ISSUED 9/19/85	
15. DATE SPUDDED 10/1/85		16. DATE T.D. REACHED 10/9/85		17. DATE COMPL. (Ready to prod.) 10/10/85		18. ELEVATIONS (DF, RKB, RT, OR, ETC.)* 4963' Gr., 4977' KB	
19. ELEV. CASINGHEAD -----		20. TOTAL DEPTH, MD & TVD 3650'		21. PLUG, BACK T.D., MD & TVD		22. IF MULTIPLE COMPL., HOW MANY* none	
23. INTERVALS DRILLED BY A11		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* None		25. WAS DIRECTIONAL SURVEY MADE No		26. TYPE ELECTRIC AND OTHER LOGS RUN DIL/SFC, Sonic, CN/FDC and RFT	
27. WAS WELL CORED No		28. CASING RECORD (Report all strings set in well)					
CASING SIZE 8 5/8"		WEIGHT, LB./FT. 24#		DEPTH SET (MD) 227' KB		HOLE SIZE 12 1/4"	
CEMENTING RECORD 120 sacks Type A		AMOUNT PULLED -----					
29. LINER RECORD				30. TUBING RECORD			
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*	
SCREEN (MD)		SIZE		DEPTH SET (MD)		PACKER SET (MD)	
31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)				AMOUNT AND KIND OF MATERIAL USED			
33.* PRODUCTION				DATE FIRST PRODUCTION			
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in) D+H			
DATE OF TEST		HOURS TESTED		CHOKE SIZE		PROD'N. FOR TEST PERIOD	
OIL—BBL.		GAS—MCF.		WATER—BBL.		GAS-OIL RATIO	
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL GRAVITY-API (CORR.)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)				TEST WITNESSED BY			
35. LIST OF ATTACHMENTS Well History. Logs Submitted directly by Schlumberger in Vernal, Utah							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED <u>John P. Lockridge</u>				TITLE <u>President</u>		DATE <u>10/14/85</u>	

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			No cores or drill stem tests.	Uinta "B" Marker	3236	